REMARKS

Claims 1-71 are pending in the present patent application. Claims 1-45 and 56-71 were withdrawn from consideration. Claims 46-49, 51, 53 and 54 are rejected. Claims 50, 52 and 55 are objected to. This application continues to include claims 1-71.

Applicants thank the Examiner for the indication that claims 50, 52 and 55 contain allowable subject matter.

Claims 46, 47, 48, 49, 51, 53, and 54 were rejected under 35 U.S.C. §102(b) as being anticipated by Matsumoto (U.S. Patent No. 4,604,632). Applicants respectfully request reconsideration of the rejection of claims 46, 47, 48, 49, 51, 53, and 54 in view of the following.

Claim 46 is directed to an apparatus for perforating a sheet of print media having a front side and a back side. Claim 46 recites, "a printhead carriage for carrying a printhead; a perforator carriage for carrying a perforation forming mechanism; and an isolation damper coupling said printhead carriage to said perforator carriage."

It is proper to resort to Applicants' specification to determine what Applicants meant by the term "isolation damper". The Patent and Trademark Office ("PTO") determines the scope of claims in patent applications not solely on the basis of the claim language, but upon giving claims their broadest reasonable construction "in light of the specification as it would be interpreted by one of ordinary skill in the art." Phillips v. AWH Corp., 75 USPQ2d 1321, 1329 (Fed. Cir. 2005) quoting In re Am. Acad. of Sci. Tech. Ctr., 367 F.3d 1359, 1364, 70 USPQ2d 1827 (Fed. Cir. 2004) (Emphasis added). One looks to the specification "to ascertain the meaning of a claim term

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as it is used by the inventor in the context of the entirety of his invention." Comark

Communications v. Harris Corp., 156 F.3d 1182, 1187 (Fed, Cir. 1998),

As stated in Applicants' specification at page 12, lines 25-28 and line 33-page 13, line 3, "Perforator carriage 134 is connected to carrier transport belt 42, and is coupled to carriage 32 by

isolation members 136. Isolation members 136 may be made, for example, of rubber or other

material having elastic, vibration absorbing, characteristics. [] isolation members 136 serve as

isolation dampers so that operation of the perforator mechanism in perforator carriage 134 will

not transmit mechanical vibrations directly to carriage 32, and in turn to printheads 38a, 38b."

(Emphasis added).

Thus, in the context of the entirety of Applicants' invention, the recited isolation damper

is a device having vibration absorbing characteristics such that the perforator carriage will not

transmit mechanical vibrations directly to the printhead carriage.

In rejecting claim 46, the Examiner relies on recording head 26 of Matsumoto as

corresponding to the recited "printhead carriage", arm 30A as corresponding to the recited

"perforator carriage", and pin 27 as corresponding to the recited "isolation damper coupling said

printhead carriage to said perforator carriage". Matsumoto discloses a recording head 26 having

a plurality of recording elements 26A, and is rotatably mounted on the head mount 1 around a pin

 $27. \ (Column\ 2, lines\ 62\text{-}42; Fig.\ 1B).\ A\ perforating\ lever\ 30\ is\ pivotably\ supported\ around\ pin$

27, and has a perforating wheel 31 rotatably attached to a shaft 32 at an end of an upper arm $30\mathrm{A}$

of the perforating lever 30. (Column 3, lines 7-10; Fig. 1B).

The Examiner may not, because of doubt that the invention is patentable, resort to

speculation, unfounded assumption or hindsight reconstruction to supply deficiencies in the

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factual basis for the rejection. In re Warner, 154 U.S.P.Q. 173,178 (CCPA 1967). Nothing in

Matsumoto supports this assertion by the Examiner that the Matsumoto pin 27 is an isolation

damper. In Matsumoto the only mention of pin 27 is at column 2, lines 62, 63, and at column 3,

lines 7, 8. Further, nothing in Matsumoto in any way discloses, teaches or suggests that pin 27 is

configured in some fashion to form an isolation damper for coupling recording head 26 and

perforating lever 30, i.e., having vibration absorbing characteristics such that the perforator

carriage will not transmit mechanical vibrations directly to the printhead carriage. Matsumoto

merely discloses pin 27 as a pivot support, and as a common pivot member to mount each of

recording head 26 and perforating lever 30 to the carriage (head mount 1) at a common pivot

location.

Thus, the Examiner has resorted to impermissible speculation and unfounded assumption

to supply deficiencies in the factual basis with respect to Matsumoto pin 27, which resulted in an

improper overly broad interpretation of Matsumoto with respect to the rejection of Applicants'

claims. There simply is no disclosure, teaching, or suggestion in Matsumoto to support the

Examiner's assertion that Matsumoto pin 27 is an isolation damper in the context of Applicants'

claims.

Accordingly, in view of the above, claim 46 is believed to be allowable in its present form.

Each of claims 47, 48, 49, 51, 53, and 54 depend, directly or indirectly, from claim 46,

and are believed allowable in view of their respective dependence from otherwise allowable

base claim 46. In addition, claims 47, 48, 49, 51, 53, and 54 further and patentably define the

invention over Matsumoto.

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For example, claim 54 recites, "The apparatus of claim 46, further comprising: a first roller positioned upstream of said perforation forming mechanism; and a second roller positioned downstream of said perforation forming mechanism, said sheet of print media being suspended between said first roller and said second roller during perforation." In contrast, as shown in Matsumoto Fig. 4, rollers 15A, 15B and platen 23 are arranged such that the paper 8 is held tightly against platen 23 during perforation, and thus, "said sheet of print media" is not "suspended between said first roller and said second roller during perforation", as recited in claim 54. (Emphasis added). Rather, in Matsumoto Fig. 4, paper 8 is suspended between roller 15A and platen 23 prior to perforation, is suspended again between platen 23 and roller 15B after perforation, and is held by platen 23 during perforation, and thus is not suspended between roller 15A and roller 15B during perforation.

Accordingly, claim 54 is believed allowable in its own right,

Therefore, in view of the above, it is respectfully requested that the Examiner withdraw the rejection of claims 46, 47, 48, 49, 51, 53, and 54 as being anticipated by Matsumoto under 35 U.S.C. 102(b).

Claims 46, 47, and 49 were rejected under 35 U.S.C. §103(a) as being unpatentable over Petersen, et al. (U.S. Patent No. 5,363,123) in view of Schmitt (U.S. Patent No. 4,564,470). Applicants respectfully request reconsideration of the rejection of claims 46, 47, and 49 in view of the following.

As set forth above, claim 46 is directed to an apparatus for perforating a sheet of print media having a front side and a back side. Claim 46 recites, "a printhead carriage for carrying a printhead; a perforator carriage for carrying a perforation forming mechanism; and an isolation 2002-0168 01/0 10885 US

damper coupling said printhead carriage to said perforator carriage. As set forth above, in the context of Applicants' invention, the recited isolation damper is a device having vibration absorbing characteristics such that the perforator carriage will not transmit mechanical vibrations directly to the printhead carriage.

The Examiner asserts that Petersen, et al. discloses everything in claim 46 except for the perforation forming mechanism, for which the Examiner relies on Schmitt. In particular, for example, the Examiner asserts that Petersen, et al. discloses the recited "isolation damper coupling said printhead carriage to said perforator carriage", relying on Petersen, et al. Figs. 2-4 and column 3, lines 25-35 with respect to elements 70, 80.

The Examiner has resorted to impermissible speculation and unfounded assumption to supply deficiencies in the factual basis with respect to the assertion that elements 70, 80 form an isolation damper as recited in claim 46. (See *In re Warner*, 154 U.S.P.Q. 173,178 (CCPA 1967). Petersen, et al. discloses at column 3, lines 30-42, "The pickup arm 80 is made of a thin sheet metal having sufficient flexibility or is mounted on the posts 70 with sufficient compliance in the vertical direction to permit at least its remote end 82 to be vertically moved upon engagement with the pickup hook ramps 26, 27 previously described. The pickup arm 80 has an inclined ramp 84 which has upper and lower camming surfaces 85, 86 thereon (FIG. 5) and first and second edges 87, 88 (FIG. 10) respectively engageable with vertically extending pusher surfaces 89, 90 on the printer carriage and pickup hook. Pickup arm 80 also has a support flange 92 for resting on platform 29 on the pickup hook." Thus, the reason for the flexibility and compliance with respect to elements 70, 80 is facilitating vertical movement, and not isolation damping, i.e., vibration damping. (See also, Petersen, et al. column 3, lines 48-65 and Figs. 4-19). Further, the fact that 2002-0168.01/LI0S85.US

Petersen, et al. uses "thin sheet metal" for pickup arm 80 show the lack of concern for vibration, since it is known in the art that thin sheet metal would tend to transmit, not dampen, vibration.

Accordingly, it is respectfully submitted that Petersen, et al. does not disclose, teach or suggest the "isolation damper coupling said printhead carriage to said perforator carriage", as recited in claim 46. Further, Schmitt also does not disclose, teach or suggest the "isolation damper coupling said printhead carriage to said perforator carriage", nor does the Examiner assert as much. Therefore, even if Petersen, et al. and Schmitt were combined, the combination would not yield Applicants' invention as recited in claim 46.

Each of claims 47 and 49 depend directly from claim 46, and are believed allowable in view of their respective dependence from otherwise allowable base claim 46. In addition, claims 47 and 49 further and patentably define the invention over Petersen, et al. in view of Schmitt.

Therefore, it is respectfully requested that the Examiner withdraw the rejection of claims 46, 47, and 49 as being unpatentable under 35 U.S.C. 103(a) over Petersen, et al. in view of Schmitt.

Applicants believe the present application is in condition for allowance in its present form, and it is respectfully requested that the Examiner so find and issue a Notice of Allowance in due course.

In the event Applicants have overlooked the need for an extension of time, an additional extension of time, payment of fee, or additional payment of fee, Applicants hereby conditionally petition therefor and authorize that any charges be made to Deposit Account No. 20-0095, TAYLOR & AUST, P.C.

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Should any question concerning any of the foregoing arise, the Examiner is invited to telephone the undersigned at (317) 894-0801.

Respectfully submitted,

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